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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No : TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2018-12-11-52 **Date: 09/09/2017**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Costruction of Compound Wall inter luck Tiles Gates to Indira Canteen in Ward No.14
Agency	:	Sri Shrirama Reddy No 62 Behind Widia Ashoka nagara Nagasandra Bangalore-73
Customer's Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-2017
Sample ID No	:	2018-12-11-52 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/08/2017	09/09/2017	151.04 X 151.34 X 151.93	22858	8.240	394.6	17.3	17.6
2	PCC	M15	12/08/2017	09/09/2017	151.55 X 150.10 X 149.87	22748	8.991	401.2	17.6	
3	PCC	M15	12/08/2017	09/09/2017	150.77 X 150.71 X 150.82	22723	8.204	405.6	17.8	

Note:
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All information furnished by Customer/Representative
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಜಜಿಎಂಪಿ
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Certificate No. : TC- 5848

Format No :CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 07-08-2017

Lab ID	:	CP-2018-12-11-52
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore
Project Name	:	Costruction of Compound Wall inter lock Tiles Gates to Indira Canteen in Ward No 14
Agency	:	Sri Shrirama Reddy No 62 Behind Widia Ashoka nagara Nagasandra Bangalore-73
Customer's Reference	:	ಕ.ಆ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-2017
Sample ID No	:	2018-12-11-52 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification . IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test	:	04-08-2017	
Environmental Conditions during test	:	Temperature	26°C
		Humidity	72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.46	-
2	Finess by Air permeablity method (m^2/kg,Min)	255.8	225m^2/kg, Min
3	Density (gm/cc)	3.12	-
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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Quality Manager

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Certificate No: TC-5548

Format No: CPTT/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-12-11-52
Customer	:	Date: 01-09-2017 Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Costruction of Compound Wall inter luck Tiles Gates to Indira Canteen in Ward No.14
Agency	:	Sri Shrirama Reddy No 62 Behind Widia Ashoka nagara Nagasandra Bangalore-73
Customer's Reference	:	ಕಾ.ಆ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-2017
Sample ID No	:	2018-12-11-52 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-08-2017
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.9N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.2N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.4N/mm^2	Not less than 53 N/mm^2

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Date.....

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2018-12-11-52 Date: 07-08-2017
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Costruction of Compound Wall inter luck Tiles Gates to Indira Canteen in Ward No.14
Agency	:	Sri Shrirama Reddy No 62 Behind Widia Ashoka nagara Nagasandra Bangalore-73
Customer's Reference	:	ಕಾ.ಆ/ದಾ.ಪಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-08-2017
Sample ID No	:	2018-12-11-52 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-08-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-12-11-52

Sample ID No : 2018-12-11-52 /02(a)

Date: 07-08-2017

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.24	–

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Quality Manager

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ಚನ್ನರಾಯಪಟ್ಟಣ, ಜಿಲ್ಲೆ
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2018-12-11-52
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Costruction of Compound Wall inter luck Tiles Gates to Indira Canteen in Ward No.14
Agency	:	Sri Shrirama Reddy No 62 Behind Widia Ashoka nagara Nagasandra Bangalore-73
Customer Reference	:	ಕಾ.ಅ/ಮಾ.ವಿ/ಕಾ.ಟ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-2017
Sample ID No	:	2018-12-11-52 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-08-2017

Date: 05-08-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	–

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